

Nicholas Zuber

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SKILLS

Programming Languages & Frameworks

Proficient in: JavaScript, NodeJS, React/Redux, React Native, C++, HTML5, CSS3, jQuery
Experienced with: Python, C, PHP, Java, MySQL, MIPS Assembly, Shell Script
Software & OS: Git, OS X, Windows, Ubuntu, Visual Studio, VIM, Bash, WordPress, Magento

EDUCATION

University of Massachusetts Lowell

Fall 2014 – Spring 2018

Bachelor of Science in Computer Science, Minor in Mathematics

Relevant Courses: Data Structures, Algorithms Analysis, Object Oriented Design, Functional Programming, Discrete Mathematics, Operating Systems, Computer Architecture & Assembly, Probability and Statistics, Logic Design

Honors: Dean's List, UMass Amherst Book Award for Computer Science

Activities: Member of Modern JavaScript Society, Member of Hackathon Hackers, Captain of Intramural Soccer Team

EXPERIENCE

Robin

May 2016 – August 2016

Software Engineer Intern

Tech Stack: JavaScript, React Native, Redux, Git

- Helped build and maintain a newly made mobile application for Android and iOS platforms for thousands of users
- Utilized knowledge of Levenshtein string distance algorithm to build custom approximate string matching module derived from the Wagner-Fischer approach with memory efficient alterations, to enhance user experience in search fields
- Carefully applied functional paradigms to take full advantage of Redux and to produce testable, deterministic code that emulates a deterministic finite state machine

Veranda Outdoors

May 2015 – August 2015

Software Developer

Tech Stack: PHP, MySQL, JavaScript, HTML, CSS3, Magento, Apache4

- Created a practical and user friendly whole sale ordering platform for hundreds of relatively high profile customers of the company
- Quickly was able to adapt to the preexisting legacy software within the company as well as seamlessly introducing modern software into the ecommerce platform
- Directed and worked with a small team of developers to organize and plan out approaches to tackle various projects efficiently
- Guided design improvements on the main website, as well as other areas of the website to improve the user experience

University of Massachusetts

February 2015 – June 2015

Web Designer/Software Developer

Tech Stack: JavaScript, HTML5, CSS3, jQuery

- Combined knowledge of data structures and divide and conquer algorithmic techniques to create an optimized class scheduling application that is aimed to be used by hundreds of staff members
- Designed a modern and clean user interface for a simple and easy-to-use experience, while still maintaining powerful functionality
- Communicated and worked together proficiently with staff to build and design the ideal web application to fit their needs and help automate the class scheduling process

PROJECTS

Needle (Library)

September 2015 – Present

Software Engineer

Tech Stack: JavaScript, NodeJS

- Worked intimately with a wide variety of commonly used data structures (linked lists, hash maps, k-ary trees, etc.), as well as more esoteric, but useful, data structures (rolling hash, bit array, etc.)
- Produced a series of benchmarks to analyze the performance of individual components throughout the library and various flavors of unit testing for quality assurance
- Optimized software performance, as well as adding both client and server side support to produce a flexible, lightweight product

MarkUp (WebApp)

August 2016 – Present

Software Engineer

Tech Stack: JavaScript, React, Redux, NodeJS

- Developed and designed an online markdown platform that supports Kramdown and MathJax, allowing for simple and easy text editing for rich markdown applications
- Implemented a deterministic and stateful application that predictably adheres to the functional paradigm that Redux applications warrant
- Capitalized on the use of React's virtual DOM approach to provide a smooth and performant product that can handle continuous state changes and alterations
- Created an intuitive and modern user interface that abides by an internal style guide with carefully coordinated color schemes and strategically placed interactive components

Material Paper (React Module)

August 2016 – Present

Software Engineer

Tech Stack: JavaScript, React, NodeJS

- Built a malleable, versatile, and responsive component that is designed to seamlessly integrate into any React application
- Analyzed the Material Design specifications to produce a meaningful and natural feeling module that bolsters user experience
- Designed the ability to create easily reusable settings and customizations so component variations can be painlessly distributed throughout an application

References available upon request